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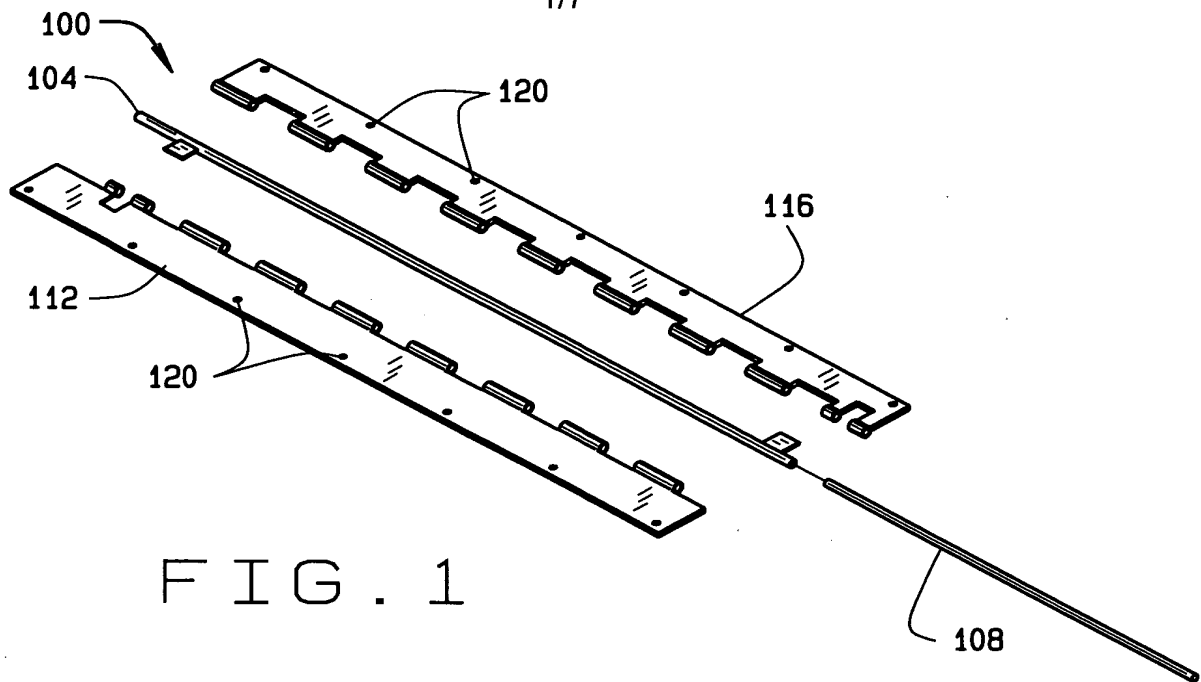


FIG. 1

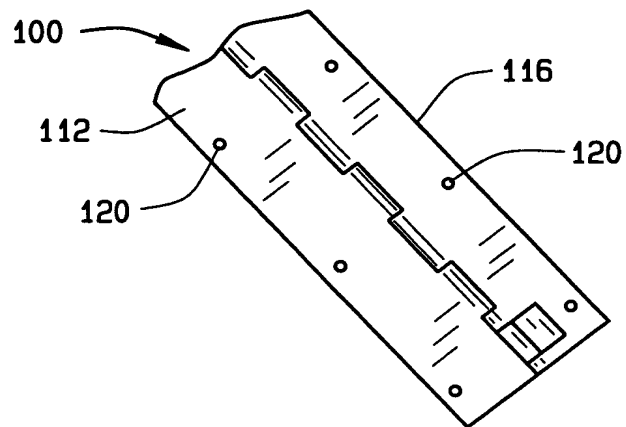


FIG. 2

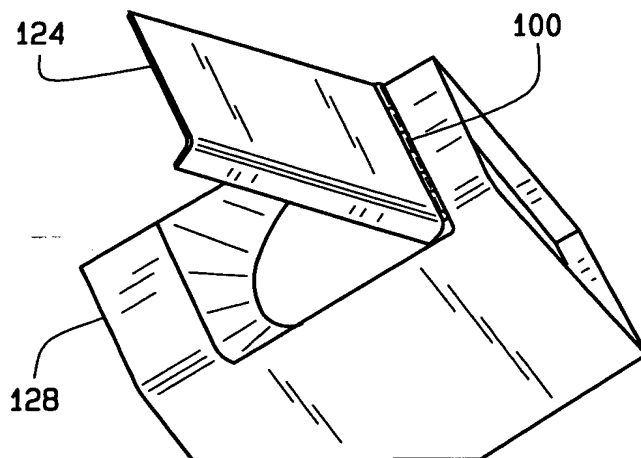


FIG. 3

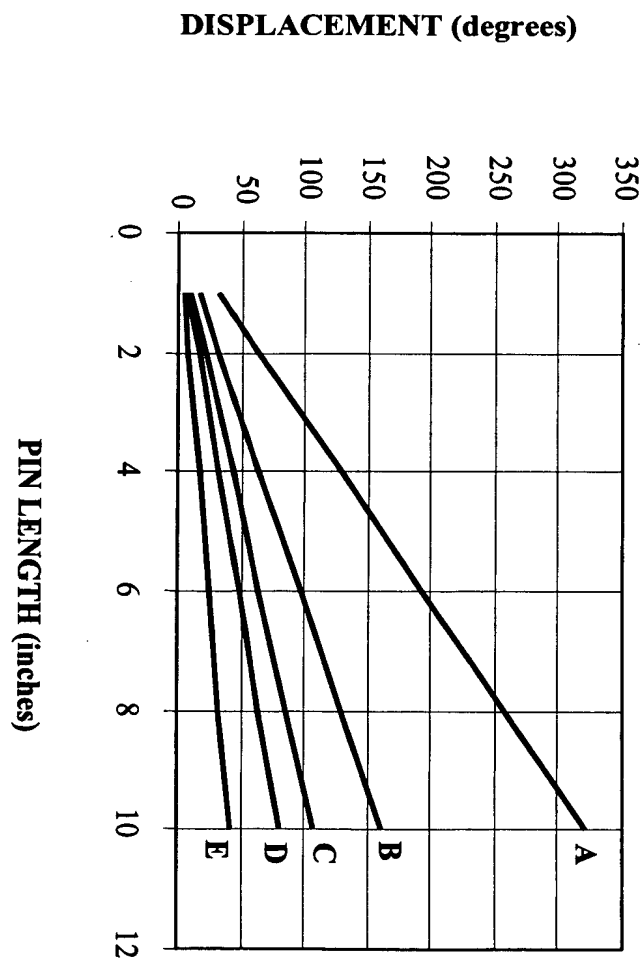


FIG. 4

Title: HINGE APPARATUS WITH TWO-WAY CONTROLLABLE SHAPE MEMORY
ALLOY (SMA) HINGE PIN ACTUATOR AND METHODS OF MAKING TWO-WAY SMA PARTS

Inventor: James H. Mabe

Atty. Ref.: 7784-000704

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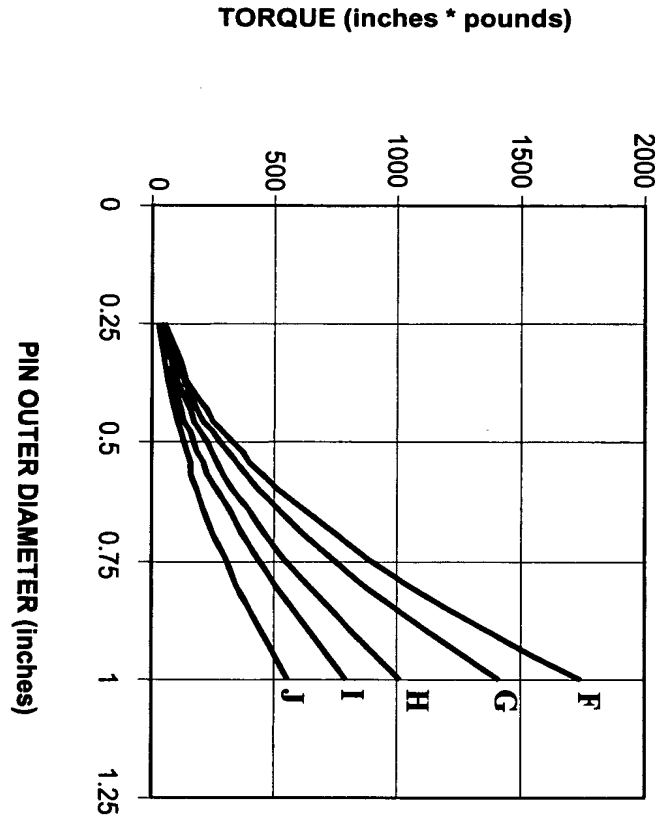


FIG. 5

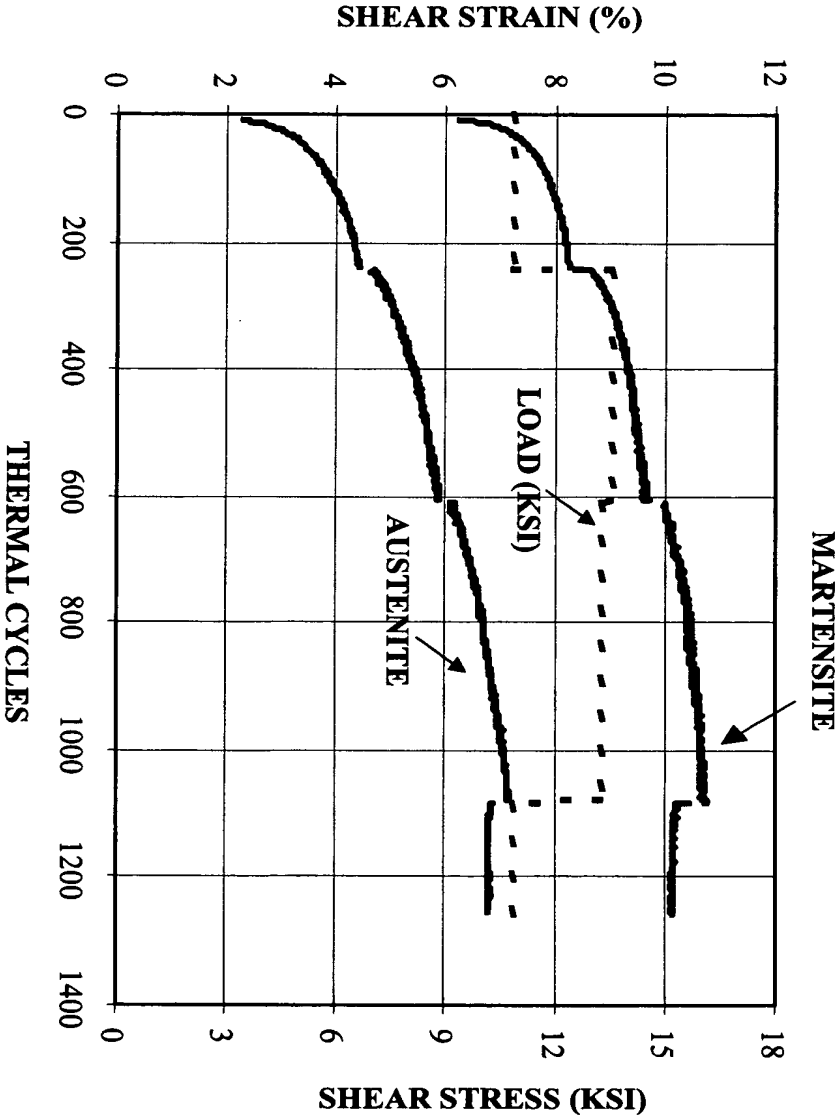


FIG. 6

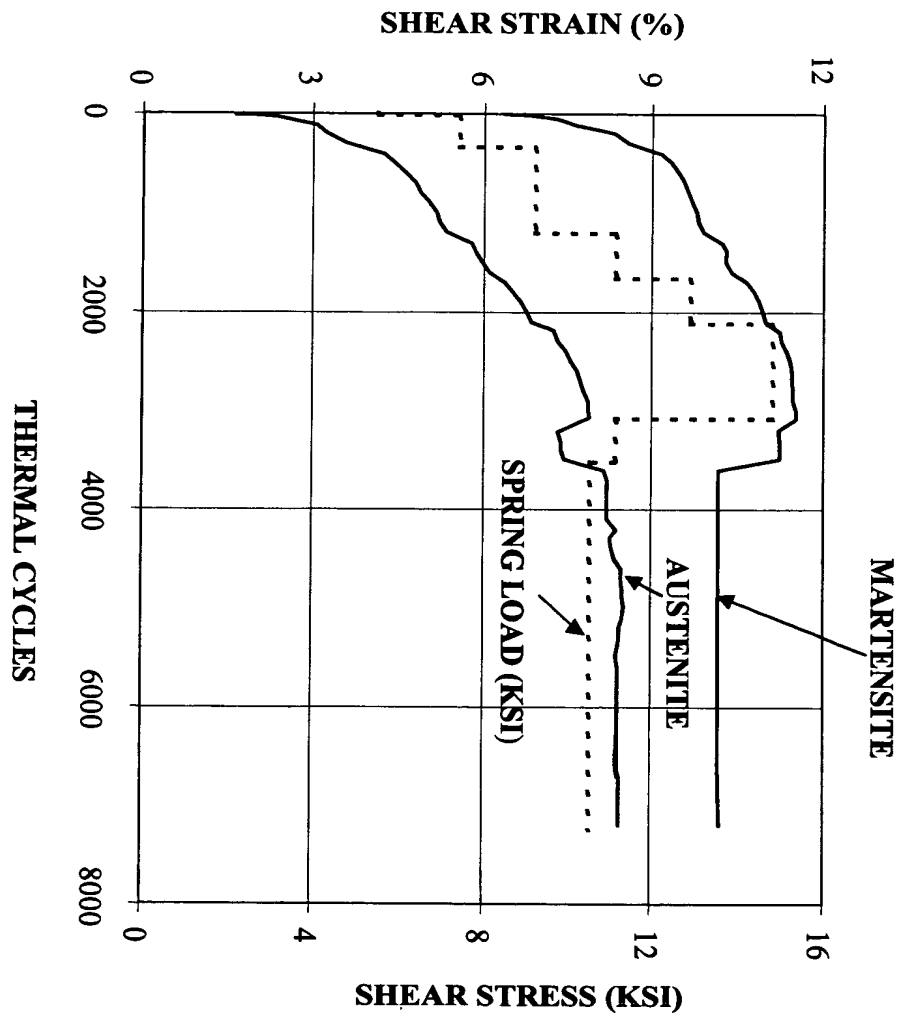


FIG. 7

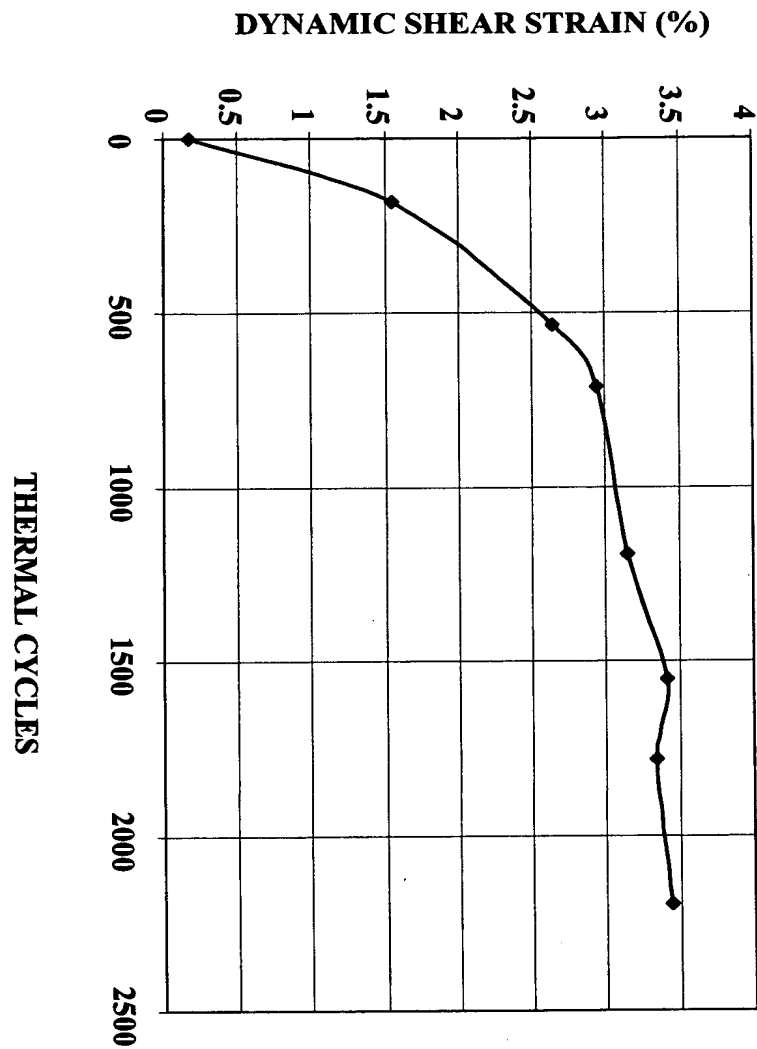


FIG. 8

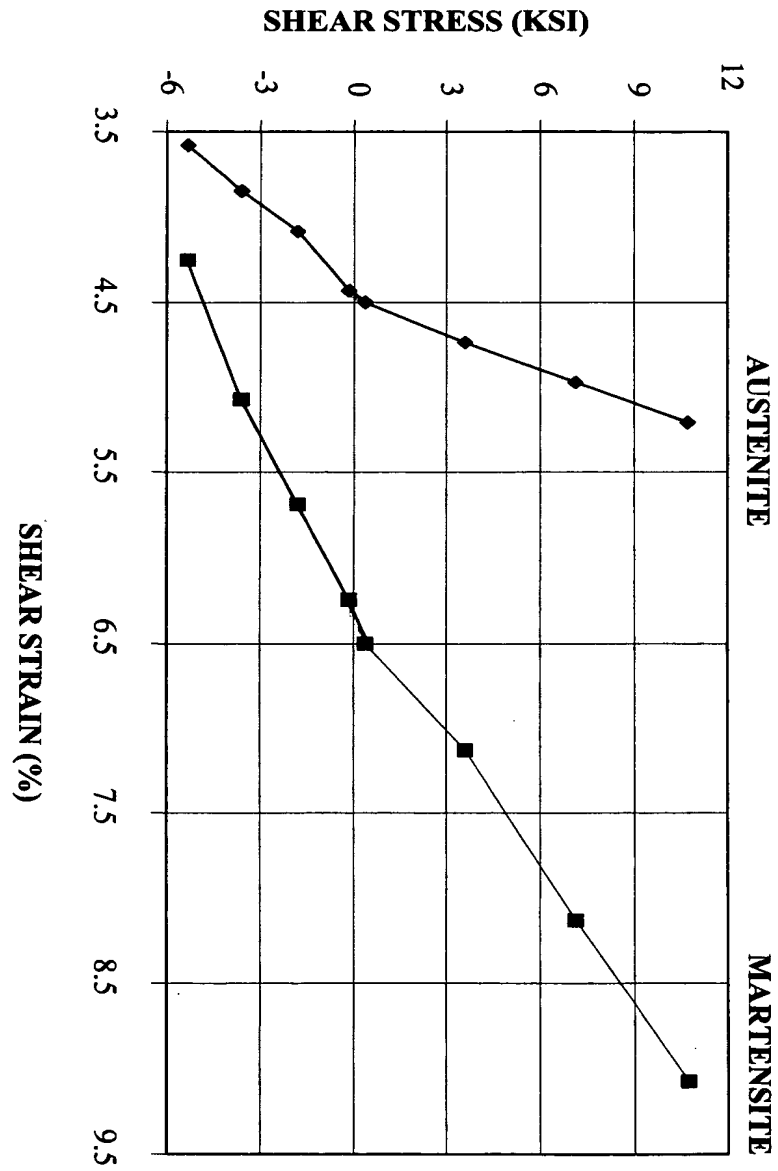


FIG. 9